APPENDIX

For some applications, it might be an advantage to design the prism so that the in- and output signals are collinear. Examples of such considerations are assembly or packaging considerations or the lay-out of the complete optical system.

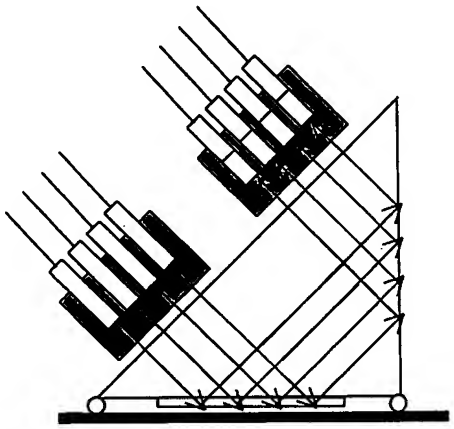

Figure 1: Example of prism design where in- and output signals are collinear. Based on two times total internal reflection.

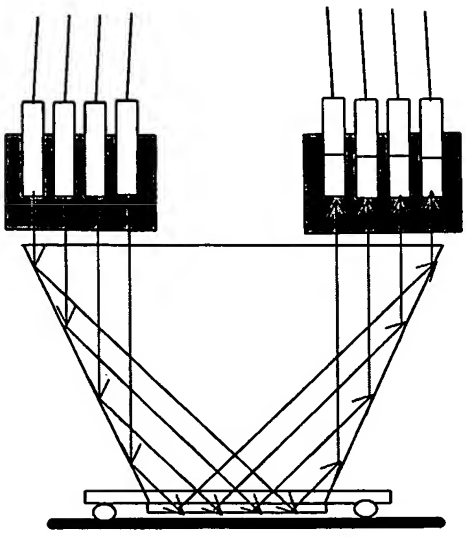

Figure 2: Example of prism design where in- and output signals are collinear. Based on two times total internal reflection. Angles in drawing are 67,5° and 112,5°, respectively

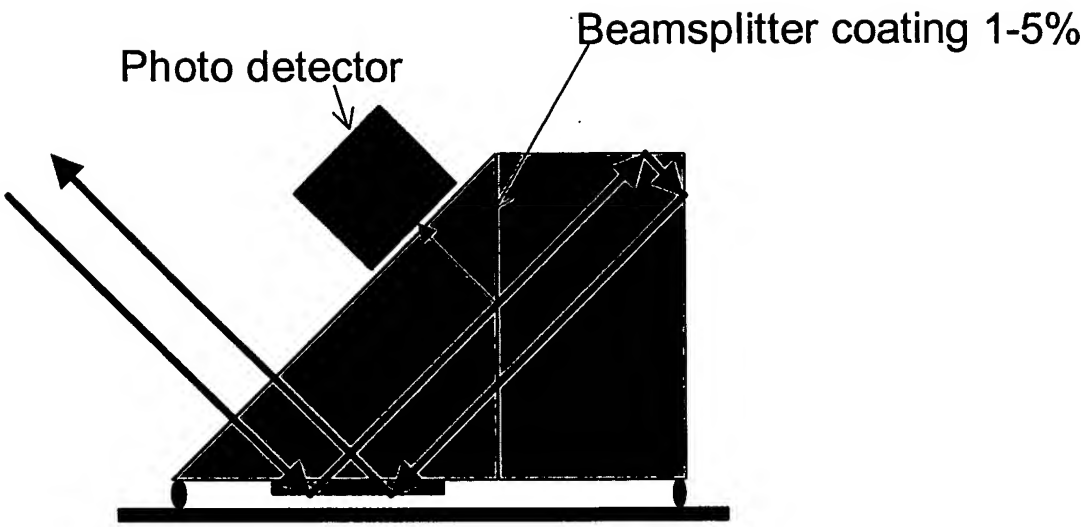

Figure 3: Example of prism design where in- and output signals are collinear. The beamsplitter coating can be added if a tap functionality is desired. The addition of the photodetector offers integrated power monitoring. The reflectivity of the coating can be tuned according to the desired tap ratio.

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